



# Department of Kinesiology and Physical Education

## Annual Report 2013

### Introduction

The department faculty members have once again been very industrious over the past year with significant achievements and productivity on the part of all faculty of the department. The department is focused on continuing to develop a strong interdisciplinary mandate. We are developing activities and clarifying the mandate of the newly recognized Center for Physical Activity and Health. We have also focused our efforts on becoming more efficient to realize cost savings to some of our activities with a specific focus on the physical education program. In this report the most significant achievements of the faculty members and the department will be highlighted. Specific details of all aspects of this report can be found at the following URL; <http://www.mcgill.ca/edu-kpe/about/report>

#### 1. Research and Publications

This past year our faculty members have published 132 refereed publications (60 refereed articles, 67 conference proceedings and presentations, 5 book chapters). Over a four year period the department's productivity has doubled compared to productivity prior to 2009. Considering the number of active faculty has varied during this period (13-15) the productivity of the department has been progressing in a very positive manner.

This year two of our faculty members were awarded CIHR grants in their review committee competition. Professor Hepple obtained another CIHR grant for his work on motor unit protection by exercise in aging muscle. Professor Rassier also obtained a CIHR grant in 2013 for his work the role of protein argylation in skeletal muscles. These grants represent over 1 million\$ in new research money awards from CIHR and these professors in particular have been consistently successful in obtaining Tri-agency funding in our department. Professor Rassier holds a CIHR salary award and is a William Dawson Chair as well as continuing to serve as interim Dean of the Faculty of Education.

Our granting success has been remarkable with other faculty members receiving significant awards from CIHR, NSERC, IRSST and other foundation grants.

Professor Shane Sweet a newcomer to the department in 2013 was awarded an FRSQ Chercheur-Boursier award in 2013. In fact our two new members have quickly become engaged in their academic pursuits. They have published 8 refereed articles, a book chapter and 15 presentations and conference proceedings in one half academic year since they were appointed half way through the academic year of 2013. These new faculty members have had a very positive impact very quickly. They have also been awarded a CXFI grant to develop their laboratory space. This project should begin in 2014.

All of the professors mentioned in this report hold funding from CIHR, SSHRC, NSERC or NSERC-CRD grants as well as the Heart and Stroke foundation, Canadian Foundation of Dietetic Research, Aurora Scientific. In total our department received over 2.0\$ million in funding as PI and total from grants including Co-PI and Co-Investigator awards was 4.0\$ million in 2013. This number will be even more substantial next year, as other faculty members have been awarded more new grants recently.

Our faculty members' funding success continues to benefit our graduate students and overall our department has provided over 330,000\$ in funding for graduate student fellowships. We have also been able to attract good quality students who have successfully completed for CIHR, NSERC, IRSST and FQRNT, Bloomberg, Mexican Government, MUHC, NCAA, CNPq-Brazil, Master's and Doctoral and Post-Doctoral Fellowships. Currently, 11 graduate students (9 doctoral and 2 Master's) and 3 Postdoctoral students have received funding through these agencies. In addition, the department continues to offer funds for 2 Doctoral fellowships with the Bloomberg fellowships and these awards have been crucial for attracting and keeping high quality graduate students in the department. Our graduate enrolment has been growing over the last five years due in part to our capacity to attract and fund these high quality students.

## **2. Teaching and Learning (undergraduate and graduate)**

### **Undergraduate**

Our primary focus this past year was to modify our undergraduate programs to better serve our students. Our physical education was revised once again and streamlined in preparation for a change in admission requirements with a greater science component becoming a part of this program. William Harvey our new undergraduate program director and support and part-time teaching staff worked diligently to improve the quality of delivery of the program. One significant problem has been the management of resources to service this program. With the cuts in part-time teaching some of our offerings have had to be reconsidered and Professor Harvey has had to devise creative ways in delivering the content without compromising the quality of delivery. Some courses deemed unnecessary have been eliminated and others have been reformulated to reduce the need for multiple sections and increase the pedagogical character of delivery of the activity courses taught. We also have been reviewing instructor performance in individual courses and have been making changes to improve the quality of instruction by hiring new part-time instructors.

Our kinesiology program was revised in preparation for the imminent certification of Kinesiologists in Quebec. It is expected that Kinesiology will be granted "Professional Order" status this fall (2013) or next fall (2104). In anticipation, of this event two of our professors (Jenssen and Taivassalo) have been working to develop clinical exercise practicums to provide students with a framework for courses to insure the acquisition of skills and hours required for certification. In addition, our new faculty lecturer Professor Scheede-Bergdahl has revised and developed three other practicum courses and a theory course that will provide students with opportunities to practice and develop exercise evaluation and exercise prescription skills required for certification with the professional order. The professionalization of Kinesiology will make the degree more attractive and enrolment in this program has increased. In addition, to these revisions that took place mostly in 2012, 2013 was a year to co-ordinate the placements for practicums and to develop the in house practicum experiences. Professor Scheede-Bergdahl has accomplished this in 2013. In addition, we have decreased the duplication of some theory courses for cost saving purposes and this has also reduced the need for part-time instructions. Further

revisions are underway to streamline this program, eliminate a few unnecessary courses and improve the quality of instruction.

### **Undergraduate Teaching Laboratory**

As part of our goal to improve quality of instruction Professor Turcotte was successful in his application to the University TLS to renovate and equip the teaching laboratory. This project is a 1.5\$ million with half of the money for equipment purchase and half for renovation of the laboratory. This project will enable the professors to plan and teach laboratories in many of our courses. These laboratory experiences and the practicum experiences conducted in house are essential for the students to gain the practical skills in the kinesiology profession. Students will be able to benefit from a state of the art facility for Kinesiologists. This project is an essential component of program revisions conducted previously in our department and to help with meeting FKQ (Federation des Kinesiologues du Quebec) standards for granting of professional status of Kinesiologists in their professional order.

### **Graduate Programs and Research Center for Physical Activity and Health**

Our graduate program director (Professor Pearsall) has been working with a sub-committee to revise our web site as part of our recruitment strategy for the graduate program. This project will be coordinated with the Research Center director (Professor Hepple) who is developing a web site for the new Research Center. In addition, to the web site Professor Hepple has also worked with a sub-committee to develop Research Center initiatives. These include an invited speaker series, a seminar series and a concerted strategy for a major CFI to develop the Research strategy of the center.

### **3. Involvement in the community and professional organizations**

All of our Faculty are involved in the review process of grants for the tri-council agencies and have also served as reviewers for journal in their fields. This past year this has occurred over 90 times in different journals. Most of our professors (9) have served on review boards for the Tri-Council granting agencies. Professor Garcia is heading a project called the Kahnawake School Diabetes Project. Professor Harvey continues to lead the CHAMPS (Choices in Health, Action, Motivation, Pedagogy and Skills) Physical Activity Centre at the Douglas hospital. This program has an important impact on children and the families in helping them deal with ADHD. Many professors have also been involved with other community organizations, media outlets like CTV CBC Discovery channel, the Montreal Gazette and various academic professional organizations. For a complete list of the community and consulting activities see the Appendix 1 on our web site. Our clinical exercise program will place students in the community fitness centers and in affiliated hospitals in the near future and this will provide the department with an opportunity to help members of the community to develop better lifestyle habits through the counseling services of our faculty and students.

### **4. Milestones**

Our significant milestones this year includes the awarding of the FRSQ checheur boursier award to Professor Shane Sweet. Professor Rassier has increased his already significant contribution to the department and Faculty by acting as interim Dean of the faculty. The development and renovation of the new teaching laboratory represents a significant milestone in the development of infrastructure for quality delivery of our graduate and undergraduate programs.

## **5. Honors, Awards and prizes**

Several of our faculty members continue to hold salary awards. Professor Rassier and Jensen and Rassier hold the prestigious William Dawson Chair. Professor Jensen and Professor Sweet are FRSQ Junior Chercheur Boursier award recipients. Professor Rassier holds CIHR salary award. Professor Cote holds a Chair for an IRSST-CIHR joint salary award and research stipend for Gender, Work and Health.

A number of graduate students and 3 postdoctoral students, as previously mentioned, received Master's and Doctoral fellowships from the Tri-council granting agencies (11 in total).

The department continues to proudly promote the Bloomberg Prize for Physical Activity and Health. This 50,000\$ research prize is awarded annually to a top researcher in the field of Kinesiology whose research that promotes an active and healthy lifestyle of North Americans.

Professor Milner was awarded a Marie Curie Incoming International Fellowship. This is a very prestigious award given to professors who are invited to spend a year as a visiting researcher in Europe. The fellowship is awarded in the form of a salary award for the duration of a year during the professor's tenure in Europe. We congratulate professor Milner on this significant achievement.

### Appendix I: Honours, Awards and Prizes

Faculty Member	Awards	Editorial Boards	Reviewer - Journals & Granting Agencies
Ross Andersen	<ul style="list-style-type: none"> <li>• NIH College of Reviewer, Certificate</li> <li>• Duke University, Hines Memorial Lecturer</li> </ul>	<ul style="list-style-type: none"> <li>• Journal of Environmental Public Health, Guest Editor for Issue</li> </ul>	<ul style="list-style-type: none"> <li>• Journal Physical Activity and Health, reviewer</li> <li>• Eur J. Clin Nutri, reviewer</li> <li>• CMAJ, reviewer</li> <li>• Res. Q. Sp. and Exer, reviewer</li> <li>• Obesity, reviewer</li> <li>• British Journal of Medicine, Reviewer</li> <li>• Annals of Internal Med, reviewer</li> <li>• SOARD, reviewer</li> </ul>
Gordon Bloom		<ul style="list-style-type: none"> <li>• International Journal of Coaching Science, Associate Editor</li> <li>• Journal of Applied Sport Psychology, Editorial Board Member</li> </ul>	<ul style="list-style-type: none"> <li>• American Institute of Medicine, reviewer, concussions in youth</li> <li>• Journal of Sport Psychology in Action, reviewer</li> <li>• International Journal of Sport Psychology, reviewer</li> <li>• The Sport Psychologist, reviewer</li> <li>• Research Quarterly for Exercise and Sport, reviewer</li> <li>• Physical Education and Sport Pedagogy, reviewer</li> <li>• Adapted Physical Activity Quarterly, reviewer</li> <li>• International Journal of Sport Science and Coaching, reviewer</li> <li>• Journal of Sports Sciences, reviewer</li> <li>• Qualitative Research in Sport Exercise and Health, reviewer</li> <li>• Psychology of Sport and Exercise, reviewer</li> <li>• Journal of Sports Science, reviewer</li> <li>• Journal of Sports Behavior, reviewer</li> <li>• International Sport Coaching Journal, member</li> <li>• Pedagogies: An International Journal, reviewer</li> <li>• Sport Coaching Review, reviewer</li> </ul>

Julie Côté	<ul style="list-style-type: none"> <li>• FRSQ Chercheur Boursier Junior 2</li> <li>• CIHR IRSST, Chair Work and Gender Health</li> </ul>	<ul style="list-style-type: none"> <li>• Motor Control Journal, Editorial Board</li> </ul>	<ul style="list-style-type: none"> <li>• Montreal and Quebec Center for Interdisciplinary Research in Rehabilitation (CRIR-CIRRI), President of scientific committee of ethics review board</li> <li>• CIHR, Post-doctoral fellowship committee</li> <li>• FRQ-S, M.Sc. rehab sciences scholarship committee</li> <li>• Motor Control International Society, Organizing committee, PMC-IX international conference, Montreal</li> <li>• IRSST, Grant reviewer</li> <li>• Quebec Rehabilitation Research Network, Board of admin</li> <li>• CIHR Institute for Gender and Health, Post-doc Fellowship committee</li> <li>• Musculoskeletal Disorder Research Axis, Quebec Occupational Health and Safety Research Network, Axis Leader, network member</li> <li>• 8<sup>th</sup> international conference on prevention of work-related musculoskeletal disorders, Korea, Conference track chair (exposure measures)</li> <li>• Muscle and Nerve, manuscript reviewer</li> <li>• Motor Control, manuscript reviewer</li> <li>• European Journal of Applied Physiology, manuscript reviewer</li> <li>• Gait &amp; Posture, manuscript reviewer</li> <li>• Canadian Journal of Physiology and Pharmacology, manuscript reviewer</li> </ul>
Lindsay Duncan		<ul style="list-style-type: none"> <li>• Journal of Imagery Research in Sport and Exercise, Editorial Board Member</li> </ul>	
Enrique Garcia			<ul style="list-style-type: none"> <li>• Canadian Institutes of Health Research - CIHR (Planning, Dissemination, and Knowledge Translation Supplement Grants), reviewer</li> <li>• Social Sciences and Humanities Research Council-SSHRC (Insight Grants), reviewer</li> <li>• Journal of Sport and Exercise Psychology, reviewer</li> <li>• Adapted Physical Activity Quarterly, reviewer</li> <li>• McGill Journal of Education, reviewer</li> <li>• Revista Mexicana de Psicología (Mexican Journal of Psychology), reviewer</li> </ul>

William Harvey	<ul style="list-style-type: none"> <li>• Clinical Research Division, Douglas Mental Health University Institute, Research Associate Appointment</li> <li>• Fonds Québécois de la Recherche sur la Société et la Culture (FQRSC) : Le programme Établissement de nouveaux professeurs-chercheurs, New Researcher Award</li> </ul>		<ul style="list-style-type: none"> <li>• Adapted Physical Activity Quarterly, reviewer</li> <li>• Physical Education and Sport Pedagogy, reviewer</li> </ul>
Russ Hepple	<ul style="list-style-type: none"> <li>• FRSQ, Chercheur Boursiers Senior</li> </ul>	<ul style="list-style-type: none"> <li>• American Journal of Physiology, Editorial Board Member</li> </ul>	<ul style="list-style-type: none"> <li>• Aging Cell, reviewer</li> <li>• Experimental Gerontology, reviewer</li> <li>• FASEB Journal, reviewer</li> <li>• American Journal of Physiology Heart, reviewer</li> <li>• Journal of Applied Physiology, reviewer</li> <li>• Journal of Gerontology Biological &amp; Medical Sciences, reviewer</li> <li>• Acta Physiologica, reviewer</li> <li>• The FASEB Journal</li> </ul>
Dennis Jensen	<ul style="list-style-type: none"> <li>• McGill University, William Dawson Research Scholar</li> <li>• Fonds de recherche Santé - Quebec, Bourse de chercheur-boursier, Junior 1 Volet, Clinique et Epidemiologie</li> </ul>	<ul style="list-style-type: none"> <li>• Frontiers in Respiratory Physiology, Review Editor</li> </ul>	<ul style="list-style-type: none"> <li>• Journal Chest, Invited Adhoc reviewer</li> <li>• Canadian Respiratory Journal, Invited Adhoc reviewer</li> <li>• Respiratory Physiology &amp; Neurobiology, Invited Adhoc reviewer</li> <li>• Lung, Invited Adhoc reviewer</li> <li>• Journal of Pain &amp; System Management, Invited Adhoc reviewer</li> <li>• Journal of Applied Physiology, Invited Adhoc Reviewer</li> <li>• Applied Physiology, Nutrition and Metabolism, Invited Adhoc reviewer</li> </ul>
Theodore Milner			<ul style="list-style-type: none"> <li>• Journal of Neurophysiology, reviewer</li> <li>• IEEE Transactions on Man, Systems and Cybernetics, reviewer</li> <li>• Plos One, reviewer</li> <li>• ICORR, Publications Chair</li> <li>• Swiss National Science Foundation, reviewer</li> <li>• University of Ottawa, External Reviewer</li> </ul>

			<ul style="list-style-type: none"> <li>Wochester Polytechnique, External reviewer</li> </ul>
Carolyn Paquette	<ul style="list-style-type: none"> <li>Heart &amp; Stroke Foundation – Prix d'excellence Moment de vérité</li> </ul>		<ul style="list-style-type: none"> <li>13th International Conference on Rehabilitation Robotics, reviewer</li> <li>Montgomery Awards, KPE reviewer</li> <li>Progress in Motor Control IX / REPAR, reviewer</li> <li>Archives of Physical Medicine and Rehabilitation, reviewer</li> <li>Gait and Posture, reviewer</li> <li>Clinical Biomechanics, reviewer</li> <li>Reviewer</li> </ul>
David Pearsall		<ul style="list-style-type: none"> <li>Journal of Applied Biomechanics, Associate Editor</li> </ul>	<ul style="list-style-type: none"> <li>Medical Engineering &amp; Physics, reviewer</li> <li>Journal of Sports Engineering and Technology, reviewer</li> <li>Journal of Biomechanics, reviewer</li> <li>Journal of Applied Biomechanics, reviewer</li> <li>Journal of Sports Engineering and Technology, reviewer</li> <li>Journal of Sports Science, reviewer</li> </ul>
Dilson Rassier	<ul style="list-style-type: none"> <li>William Dawson Scholar</li> </ul>		
Celena Scheede-Bergdahl		<ul style="list-style-type: none"> <li>Frontiers in Clinical and Translational Physiology, Section Editor</li> </ul>	<ul style="list-style-type: none"> <li>Scandinavian Journal of Medicine and Science in Sports, reviewer</li> <li>Applied Physiology, Nutrition and Metabolism, reviewer</li> <li>Journal of Cachexia, Sarcopenia and Muscle, reviewer</li> <li>Annals of Oncology, reviewer</li> <li>Journal of Negative Results, reviewer</li> </ul>
Shane Sweet	<ul style="list-style-type: none"> <li>SSHRC- Postdoctoral scholarship (\$86,000) declined</li> <li>(CIHR) for an Institute Community Support, Travel Award with the Institute of Musculoskeletal Health and Arthritis (\$1000)</li> <li>Queen's University Office of Research Services, Post-Doctoral Travel Award</li> </ul>		<ul style="list-style-type: none"> <li>Psychology of Sport and Exercise, reviewer</li> <li>Journal of Sport and Exercise Psychology, reviewer</li> <li>Translational Behavioral Medicine: Practice, Policy and Research, reviewer</li> <li>The Journal of Spinal Cord Medicine, reviewer</li> </ul>



**Appendix II: Academic Staff Research Funding - Kinesiology and Physical Education**

<b>Granting Agency</b>	<b>2013</b>
CIHR PI: N. Mayo Co-investigators: R. Andersen, Project title: The Role of Exercise in Modifying Outcomes for People with Multiple Sclerosis: A Randomized Trial	249,000
CIHR PI: N. Mayo Co-Investigators: R. Andersen, S. Bartlett Project title: Getting on with your life: A knowledge translation tool	100,000
CIHR PI: J. Bourbeau Co-Investigators: R. Andersen, M. Becklake and Others Across Canada Project title: Canadian Cohort Obstructive Lung Disease	1,000,000
SSHRC PI: G. Bloom Co-Investigators: T. Loughead, G. Reid Project title: A team building intervention to enhance the sport environment of elite athletes with a physical disability	26,152
SSHRC PI: G. Bloom Co-Investigators: T. Loughead, William Harvey Project title: Effective coaching practices and the development of cohesion for athletes with a disability	67,692
CIHR (Emerging team in gender, sex and health) PI: D. Mergler (UQAM) Co-investigator: J. Côté & 15 others across Canada and USA Project title: Integrating gender and sex in health and environment research: development of new methodology	200,000
NSERC (Discovery) PI: J. Côté Project title : Experimental analysis of whole-body changes associated with repetitive upper limb motion : what, when, why?	21,000
FRSQ Chercheur Boursier junior 2 (salary award) PI: J. Côté Project title: Troubles musculosquelettiques de cervicalgie: mécanismes de dysfonctions, impact de la posture et adaptation d'un programme de réadaptation visant le retour au travail	66,891.50
IRSST PI: J.Côté Co-investigators: N. Vézina, K. Messing Project title: Effets de la posture de travail manuel répétitif sur les patrons musculaires indicateurs de troubles musculosquelettiques	31,318.82

Tri-Council NSERC – National Centers for Excellence –Auto 21 PI: R. Wells Co-investigators: J. Côté, P. Newmann, J. Potvin, J. Callaghan Project title: Effets de la posture de travail manuel répétitif sur les patrons musculaires indicateurs de troubles musculosquelettiques	12,000
CIHR competition, IRSST funds PI: J.Cote Project title: Better understanding for better prevention of work-related neck/shoulder disorders: a concerted, sex/gender sensitive approach.	159,500
Women’s Health Research at Yale PI: K. Hieftje, L. Fiellin Co-Investigators: L. Duncan, C. Crusto Project title: Formative Research for an HIV Videogame for Young Black Women	34,000
CIHR PI: E. Garcia Co-investigators: S. Bisset, T. Delormier, K. Gray-Donald, R. Hovey, L. Levesque, A. Macaulay, J. Salsberg Project title: Participatory Policy Intervention to Promote School-Based Physical Activity	95,663
CIHR PI: Reut Gruber Co-Investigators: L. Dubé, E. Garcia, B. Knauper, Ann Mccauley, Michel Perreault, D. Precup, J. Salsberg, I. Sladeczek Project title: Starving for Sleep: Prevention of Childhood Obesity by Rapid Translation and Dissemination of Research via a University/School-Board Partnership	97,500
SSHRC-CIHR (Transition Fund) PI: W.J. Harvey Project title: Attention –Deficit Hyperactivity Disorder and Obesity: Who would have thought?	15,000
FQRSC: PI: W.J. Harvey Project title: What motivates the motivators: Exploring PE teacher training and practice	13,200
CIHR PI: R.T. Hepple Co-Investigator: T Taivassalo Project title: Mechanisms of motor unit protection by exercise in aging muscle	114,724
CIHR PI: R.T. Hepple Project Title: Relationship between denervation and mitochondrial function in aging skeletal muscle	106,638
FRSQ: PI: D. Jensen Co-Investigator: J. Bourbeau Project Title: Abdominal binding: a novel intervention to relieve dyspnea and improve exercise tolerance in patients with chronic obstructive pulmonary disease?	19,000

McGill Collaborative Research Development Fund PI: D. Jensen Co-Investigators : N. Gianetti, J. Kimoff, J. Bourbeau Project Title: Pathophysiological mechanisms of activity-related dyspnea and exercise intolerance in patients with heart failure: a pilot study	14,980
FRSQ PI: J. Bourbeau, F. Maltais Co-Investigators : D. Jensen and 7 other co-investigators Project Title: Etude de l'impact des comorbidités et multimorbidités sur l'évolution et la prise en charge de la MPOC via l'étude d'une cohorte de patients en 1ere ligne qui complète l'étude longitudinale populationnelle CanCOLD (Canadian Cohort Obstructive Lung Disease)	50,000
FRSQ PI: D. Jensen Project title: Mecanismes neurophysiologique de destresse respiratoire (dyspnee) chez les humaines dans des conditions de stress physiologique	9,931
FRSQ PI: D. Jensen Project Title: Mecanismes neurophysiologique de destresse respiratoire (dyspnee) chez les humaines dans des conditions de stress physiologique	15,000
NSERC PI: D. Jensen Project title: Neuro-physiological mechanisms of perceived respiratory discomfort (dyspnea) in human under conditions of physiological stress	52,285
NSERC PI: D. Jensen Project title: Neuro-physiological mechanisms of perceived respiratory discomfort (dyspnea) in humans under conditions of physiological stress	5,000
NSERC: PI: T. Milner Project title: Control of limb mechanics	32,000
CIHR PI: T. Milner Co-Investigators: D. Ostry Project title: Resting-state network analysis of sensorimotor processing during the formation of memory in the human brain	84,810
NSERC PI: C. Paquette Project title: Brain control of human locomotion	29,000
CIHR PI: A. Thiel, S. Black, S. Lanthier, E. Rochon Co-Investigators: J. Chen, W-D, Heiss, G. Mochizuki, C. Paquette Project title: NONinvasve Repeated Therapeutic Stimulation for Aphais Recovery - NORTHSTAR	166,719

CFI PI: C. Paquette Project title: Brain control of human locomotion	275,000
NSERC Collaborative Research Development Grant with contribution from Bauer Hockey Corp. PI: D. Pearsall Co-investigators: R. Turcotte, C. Sabiston Project title: Mechanics of Ice Hockey Equipment	156,400
NSERC Engage/Quattrium PI: D. Pearsall Project title: Performance indicators using Inertial Measurements Units in Sport Equipment	25,000
CIHR PI: D. Rassier Co-Investigator: A. Kashina Project title: The role of protein arginylation in skeletal muscles	23,659
NSERC PI: D. Rassier Project title: The role of myosin surface loops 1 and 2 in regulating the load-dependent power-stroke and ATP kinetics during muscle contraction	31,000
NSERC PI: D. Rassier Project title: The role of myosin surface loops 1 and 2 in regulating the load-dependent power-stroke and ATP kinetics during muscle contraction – Discovery Accelerator Supplement	40,000
CIHR PI: D. Rassier Project title: Mechanisms underlying the sarcomere length dependence of force and muscle activation (Operating Grant)	100,000
CIHR PI: D. Rassier Project title: Mechanisms underlying the sarcomere length dependence of force and muscle activation – Salary Award Grant – New Investigator Award	60,000
SSHRC PI: A. Latimer-Cheung Co-Investigators: S. Sweet, K. Martin-Ginis, T. MacDonald, Marie-Josée Perrier Project title: Examining the role of Paralympic sport in challenging negative stereotypes of disability	34,180
SSHRC PI: K. Martin-Ginis Co-Investigators: S. Sweet, A. Latimer-Cheung, C. Connelly, M. Beauchamp, L. Noreau, H. Tawse, G. Bone, C. McBride Project title: Using peer mentor support to enhance social participation/ community integration among adults with spinal cord injury	64,375

Réseau provincial de recherché en adaptation-réadaptation PI : F. Routhier Co-Investigators : K. Boschen, L. Noreau, L. Beaugard, S.L. Hitzig, A. Latimer, K. Martin-Ginis, K. Arbour-Nicitopoulos, D. Kairy, M.E. Lamontagne, S.Sweet	40,000
FRSQ PI J. Landry Co-Investigator: T. Taivassalo Project title: Etude sur les caractéristiques de la fonction pulmonaire, de la tolérance à l'effort, de l'utilisation des soins de santé et de la qualité de vie des personnes ayant survécu à une naissance prématurée	85,000
FRSQ-RQRV PI: M. Aubertin-Leheudre Co-Investigators: J. Morais, R.T. Hepple, S. Chevalier, M. Bélanger, D. Rassier, T. Taivassalo, G. Gouspillou Project title : Evaluation des effets d'une supplémentation en protéine combinée à une programme en résistance sur les caractéristiques corporelle et physiologiques au niveau musculaire chez des hommes âgés pré-freles '	15,000
CIHR PI: T. Taivassalo Project title: Exercise-induced up-regulation of mitochondrial gene expression: Therapeutic strategies for mitochondrial disease	100,000
<b>TOTAL :</b>	<b>3,938,618.30</b>
<b>Granting Agency</b>	<b>2013</b>
Canadian Foundation Dietetic Research PI: R. Andersen & H. Plourde Project title: Energy expenditure of spinal cord injured patients	19,975
McGill-Oxford Neuroscience Collaboration PI: T. Milner, C. Staff Project Title: Connectivity and communicability in the sensorimotor network during motor learning following stroke	24,000
Heart and Stroke Foundation PI: Alexander Thiel Co-Investigators: C. Paquette and J. Fung Project Title: Improving post-stroke recovery by combining non- invasive brain stimulation with rehabilitation	20,000
Heart and Stroke Foundation PI: C. Paquette Co-Investigator: J.P. Soucy Project title: Neuronal correlates of locomotion understanding the effect of post-stroke neuroplasticity to develop new add-on therapies	20,000
MITAC PI : S. Forget, Y-M.Paquette, D. Pearsall	15,000
Aurora Scientific PI : D. Rassier	10,000

<b>TOTAL:</b>	<b>108,975</b>
<b>TOTAL RESEARCH FUNDING</b>	<b>4,047,593.30</b>

\* Co-investigators

### Appendix III: Publications

#### Refereed Journal Articles

##### ANDERSEN, Ross

Hatzopoulou, M., Weichenthal, S., Dugum, H., Pickett, G., Miranda-Moreno, L., Kulka, R., **Andersen, R.E.**, Goldberg, M. The impact of traffic volume, composition, and road geometry on personal air pollution exposures among cyclists in Montreal, Canada. *J Expo Sci Environ Epidemiol*. 2013 Jan-Feb;23(1):46-51. Doi: 10.1038/jes.2012.85. Epub 2012

Carver, T.E., Christou, N.V., **Andersen R.E.** In vivo precision of the GE Idxa for the assessment of total body composition and fat distribution in severely obese patients. *Obesity* (Silver Spring). 2013 Feb 18. Doi: 10.1002/oby.20323. [Epub ahead of print]

Carver, T.E., Christou, N.V., Court, O., Lemke, H., **Andersen R.E.** In vivo precision of the GE Lunar Idxa for the assessment of lumbar spine, total hip, femoral neck, and total body Bone Mineral Density in severely obese patients. 2013, *Journal of Clinical Densitometry*. Jul, S1094 (EPUB)

Mayo, N.E., Bayley, M., Duquette, P., Lapierre, Y., **Andersen, R.E.**, Bartlett, S. The Role of Exercise in Modifying Outcomes for People with Multiple Sclerosis: A Randomized Trial (in Press) *BMC Neurology*

Dancause, K.N., Veru, F., **Andersen, R.E.**, Laplante, D.P., King, S. Prenatal stress due to a natural disaster predicts insulin secretion in adolescence. *Early Hum Dev*. 2013 Sep;89(9):773-6. Doi: 10.1016/j.earlhumdev.2013.06.006. Epub 2013 Jul 5.

Loprinzi, P., Cardinal, B., Crespo, C.J., Brodowicz, G., **Andersen, R.E.**, Smit, E. Valid and Invalid Accelerometry Data Among Children and Adolescents: Comparison Across Demographic, Behavioral, and Biological Variables. *Am J Health Prom*. (2014) Jan/ Feb Vol 28 No 3, 155-160.

Scarapicchia, T., **Andersen, R.E.**, Garcia, E., Sabiston, C. The Social Contagion Effects of Verbal Priming on Exercise, Mood, and Motivational Outcomes Among Inactive Females. *Journal of Sport and Exercise Psychology*. 2013, Dec; 35(6):563-575.

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**Côté, J.N.**, Ngomo, S., Stock, S., Messing, K., Vézina, N., Antle, D., Delisle, A., Bellemare, M., Laberge, M., and St-Vincent, M.) Quebec Research on Work-related Musculoskeletal Disorders: Deeper Understanding for Better Prevention. *Relations industrielles/Industrial Relations (RI/IR)*, v. 68, no. 4, 2013, pp. 643-60.

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#### **SCHEEDE-BERGDAHL, Celena**

**Scheede-Bergdahl , C.** and Jagoe, R.T. After the chemotherapy: potential mechanisms for chemotherapy-induced delayed skeletal muscle dysfunction in survivors of acute lymphoblastic leukemia in childhood, submitted to *Frontiers in Pharmacology of Anti-Cancer Drugs*. 4:49, 2013

#### **RASSIER, Dilson**

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**Sweet, S.N.**, Martin Ginis, K.A., Tomasone, J.R., & the SHAPE-SCI Research Group (2013). Investigating intermediary variables in the physical activity and quality of life relationship in persons with spinal cord injury. *Health Psychology, 38*, 877-885. doi: 10.1037/a0032383

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#### **TAIVASSALO, Tanja**

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#### **Refereed Conference Proceedings/Presentations**

#### **ANDERSEN, Ross**

Carver, T.E., Babineau, O., Lemke, H., Court, O., Christou, N.V., and **Andersen, R.E.** Changes in body composition and bone mineral density in severely obese patients following metabolic surgery. Canadian Obesity Summit 2013 (National). May 1<sup>st</sup>-4<sup>th</sup>, 2013. Vancouver, BC, Canada. (Oral Presentation)

Lemke, H., Carver, T.E., Olivier, C., **Andersen, R.E.** Long-term excess weight loss and bone mineral density ten years following bariatric surgery. 2013, Abstract 1071, MSSE. (Abstract presented at the 2013 American College of Sports Medicine Annual Meeting)

Reid, R., Babineau, O., Carver, T.E., Tudor-Locke, C., **Andersen, R.E.** Lack of relationship between objectively determined sitting time and steps/day in long term post-bariatric surgery patients. 2013, Abstract 173, MSSE. (Abstract presented at the 2013 American College of Sports Medicine Annual Meeting)

Dancause, K.N., Veru, F., **Andersen, R.E.**, Laplante, D.P., King, S. (2013) Prenatal stress due to a natural disaster predicts insulin secretion in adolescence. Poster to be presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, April 18 – 20.

Kim, J., Roy, X., Lemke H., Dikareva, A., Stevens, M., Uttley, C., **Andersen, R.E.** Position specific body composition changes in varsity football players during 19-week summer training period. *Medicine and Science in Sport and Exercise* 45(5): S553. ACSM's 60<sup>th</sup> Annual Meeting. Indianapolis, May 2013.

Dikareva, A., Herman, K.M., Carver, T.E., Andersen, K.M., Christou, N.V., Andersen, R.E. Support group attendance is associated with higher physical activity among bariatric patients in years following surgery. *Canadian Journal of Diabetes*, 37: S248. Vancouver, May 2013.

Reid, R.E.R., Carver, T.E., Reid, R.G.R., Babineau, O., Court, O., **Andersen, R.E.** The Effect of Sleep Time on Day Sedentary Time in Long-Term Post-Bariatric Surgery Patient. Accepted to present at the American College of Sports Medicine for the 2014 Annual Meeting in Orlando, FL.

#### **BLOOM, Gordon**

Caron, J.G., **Bloom, G.A.**, Loughead, T.M., and Freedman, S.) Paralympic athletes' perceptions of leadership and cohesion. *Journal of Sport & Exercise Psychology*, v. 35, 2013, s80-s81.

**Bloom, G.A.** Coaching athletes to high performance. Invited presentation at the International Council of Coach Education (ICCE) Research Fair, Durban, South Africa, September 2013.

**Bloom, G.A.** Coach learning and development in Paralympic sport. Paper presented at the 9<sup>th</sup> International Council of Coach Education (ICCE) Global Coach Conference, Durban, South Africa, September 2013.

Caron, J.G., **Bloom, G.A.**, Loughead, T., and Freedman, S. Paralympic athletes' perceptions of leadership and cohesion. Poster presented at the annual conference of the North American Society for Psychology of Sport and Physical Activity (NASPSA). New Orleans, LA, USA, June 2013.

Lamfookon, C., Delaney, S.J. and **Bloom, G.A.** Why University athletes do not seek medical attention following concussion symptoms. Poster presented at the annual conference of the Canadian Association of Emergency Physicians (CAEP), Vancouver, British Columbia, June 2013.

Caron, J.G., and **Bloom, G.A.** Concussions: Implications for sport and exercise psychology consultants. Paper presented at the 17<sup>th</sup> annual Eastern Canada Sport & Exercise Psychology Symposium (ECSEPS), St. Catharines, Ontario, March 2013.

Sinotte, C.A., and **Bloom, G.A.** The roles, responsibilities, and relationships of successful full-time assistant coaches in Canadian university football. Paper presented at the 17<sup>th</sup> annual Eastern Canada Sport & Exercise Psychology Symposium (ECSEPS), St. Catharines, Ontario, March 2013.

Fairhurst, K., and **Bloom, G.A.** A proposed study of the development of a mentoring program for Paralympic coaches. Paper presented at the 17<sup>th</sup> annual Eastern Canada Sport & Exercise Psychology Symposium (ECSEPS), St. Catharines, Ontario, March 2013.

Paiement, D.M., and **Bloom, G.A.** A proposed study on Paralympic rowers' perceptions of a team-building intervention. Paper presented at the 17<sup>th</sup> annual Eastern Canada Sport & Exercise Psychology Symposium (ECSEPS), St. Catharines, Ontario, March 2013.

Poirier, C., Caron, J., and **Bloom, G.A.** The effect of social support on concussion rehabilitation. Paper presented at the 17<sup>th</sup> annual Eastern Canada Sport & Exercise Psychology Symposium (ECSEPS), St. Catharines, Ontario, March 2013.

#### **COTE, Julie**

**Côté, J.N.** Whole-body sensory and pain threshold changes following repetitive upper-limb work-induced fatigue. Proceedings of the 8<sup>th</sup> International Conference on Prevention of Work-Related Musculoskeletal Disorders, Busan, South Korea, July 2013.

Antle, D., and **Côté, J.N.** Effects of a sit-standing stool on muscular and vascular outcomes associated with the performance of a repetitive upper limb work task. Proceedings of the 8<sup>th</sup> International Conference on Prevention of Work-Related Musculoskeletal Disorders, Busan, South Korea, July 2013.

**Côté, J.N.** Troubles musculosquelettiques associés au travail : mieux comprendre pour mieux prévenir. CIRRIIS brownbag seminar, Quebec, October 22nd 2013.

**Côté, J.N.** Adaptations to neck/shoulder fatigue and injury. 9<sup>th</sup> International Symposium, Progress in Motor Control, Montreal, July 2013.

**Côté, J.N.** Gender differences in neck/shoulder muscular variability characteristics associated with the performance of a repetitive upper limb work task. Motor variability in working life workshop, 8<sup>th</sup> International Conference on Prevention of Work-Related Musculoskeletal Disorders (PREMUS), Busan, Korea, July 2013.

#### **DUNCAN, Lindsay**

Hieftje, K., Duncan, L., Sawyer, B. & Fiellin, L. (2013, Tuesday, December 10). PlayForward: Elm City Stories: Overview. Paper presented at the 2013 mHealth Summit, Washington, DC, USA.

Hieftje, K. D., **Duncan, L. R.**, Sawyer, B., & Fiellin, L. E. (2013, Tuesday, December 10). Developing a behavior change videogame: Lessons Learned. Paper presented at the 2013 mHealth Summit. Washington, D.C., USA.

Fiellin, L. E., Hieftje, K. D., **Duncan, L. R.**, Sawyer, B. G., & Fiellin, D. A. (2013, Tuesday, June 18). A videogame for substance use prevention and HIV risk reduction in young adolescents. Paper presented at the annual meeting of the College on Problems of Drug Dependence. San Diego, California, USA.

Fakhouri, T., Hieftje, K. D., Duncan, L. R., & Fiellin, L. E. (2013, May). Automated data collection for assessing exposure to a behavior change video game. Poster session presented at the Yale Research in Residency Program Meeting. New Haven, CT.

Camenga, D. R., Hieftje, K., Duncan, L. R., Edelman, J., Rosenthal, M. S., & Fiellin, L. E. (2013, Saturday, May 4). A qualitative study of message framing in young adolescents. Poster session presented at the annual meeting of the Pediatric Academic Society, Washington, DC, USA.

Duncan, L. R., Rivers, S. E., Latimer-Cheung, A. E., Parmar, K. U., Embacher, K. A., & Salovey, P. (2013, Friday March 22). Examining the impact of future time perspective on the persuasiveness of health messages. Poster session to be presented at the annual meeting and scientific sessions of the Society of Behavioral Medicine, San Francisco, CA, USA.

Hieftje, K., Duncan, L. R., & Fiellin, L. E. (2013, March). PlayForward: Elm City Stories, A Videogame for Behavior Change. Technology demonstration to be presented at the annual meeting of the American Academy of Health Behavior, Santa Fe, NM, USA.

### GARCIA, Enrique

**García Bengoechea, E.**, Sabiston, C. M., & Wilson, P. M. (June 2013). *Understanding social relational influences on adolescent motivation and sport participation: The Interpersonal Context in Sport Questionnaire*. *Journal of Sport & Exercise Psychology*, 34, s228.

Salsberg, J., Hogan, L., Jacobs, J., Macaulay, A.C., **García Bengoechea, E.**, King, M., Macridis, S. (2013, June). *How do community stakeholders and researchers come together to develop health policy? Lessons from the Kahnawake Schools Diabetes Prevention Project on developing a school-based physical activity policy*. Workshop presentation at CU Expo 2013 - Community-University Exposition, Corner Brook, Nfld.

**García Bengoechea, E.**, Sabiston, C. M., & Wilson, P.M. (2013, June). *Modeling the activity context of adolescent sport participation and motivation*. Poster presentation at the Annual Meeting of the North American Society for the Psychology of Sport and Physical Activity. New Orleans, La.

**García Bengoechea, E.**, Hogan, L., Salsberg, J., Delormier, T., Poulette, A., Bisset, Jacobs, J., King, M., Levesque, L. et al. (February 2013). *Developing the physical activity component of a school-based wellness policy in an indigenous community in Canada*. Poster presentation at the 10<sup>th</sup> Active Living Research Conference. San Diego, Cal.

### HARVEY, William

Peláez, S., **Harvey, W.J.**, & Baillargeon, J. (October, 2013). *Potential contributions of coaches' moral education: The participants' perspectives*. Oral presentation at the North American Society for the Sociology of Sport (NASSS), Quebec City, Canada.

### HEPPLE, Russell

**Hepple, R.E.** *Altered Mitochondrial Function in Aging Muscle and its Role in Aging Muscle Atrophy*. Padua Muscle Days, Padova, Italy, November 15-16, 2013.

**Hepple, R.E.** *How Do We Define Sarcopenia?* 1<sup>st</sup> Montreal International Symposium of GRAPA. Muscle: From Humans to Cells. Montreal, Canada, May 3-4, 2013.

**Hepple, R.E.** *Implications of Declining PGC-1 $\alpha$  for Aging Skeletal Muscle*. 1<sup>st</sup> Montreal International Symposium of GRAPA. Muscle: From Humans to Cells. Montreal, Canada, May 3-4, 2013.

#### **JENSEN, Dennis**

**Jensen, D.**, Webb, K.A., O'Donnell, D.E. The respiratory system is not "underbuilt" for exercise in healthy women aged 60-80 years. *American Journal of Respiratory and Critical Care Medicine*. 187:A4869, 2013.

**Jensen, D.**, Glicksman, R., Chan Chun Kong, D., Schaeffer, M.R., Mendonca, C.T. Effect of abnormal binding on neuromechanical coupling of the diaphragm during exercise in healthy, young men: implications for dyspnea and exercise tolerance. *American Journal of Respiratory and Critical Care Medicine* 187:A4872, 2013.

Schaeffer, M.R., Mendonca, C.T., LeVangie, C.M., Andersen, R.E., Taivassalo, T., **Jensen, D.** Sex differences in the diaphragm EMG response to incremental cycle exercise in healthy, young adults : implications for respiratory sensation. *American Journal of Respiratory and Critical Care Medicine*. 187: A487-, 2013.

Mendonca, C.T., Schaeffer, M.R., Riley, P., LeVangie, C.M., **Jensen, D.** Physiological mechanisms of dyspnea during exercise in the presence of external thoracic restriction: role of increased neural respiratory motor drive. *American Journal of Respiratory and Critical Care Medicine*. 187:A4871, 2013.

#### **MILNER, Theodore**

Kazemi, H., Kearney, R.E. and **Milner, T.E.** (2013) Using a robotic interface and haptic feedback to improve grip coordination of hand function following stroke – case study. *ICVR 2013*

Kazemi, H., Kearney, R.E. and **Milner, T.** (2013) Characterizing coordination of grasp and twist in hand function of healthy and post-stroke subjects. *ICORR 2013*

Nugent, M.M. and **Milner, T.E.** (2013) Patterns of muscle activation in the high frequency belly dance shimmy. *23<sup>rd</sup> Ann. Mtg. Soc. NCM*

#### **PAQUETTE, Caroline**

**Paquette, C.**, Funck, T., Sidel, M., Melmed, C., Monci, O., Thiel, A. (2013) Regional changes in cortical neuronal density with idiopathic Parkinson's syndrome. World Parkinson Congress. Montreal QC, Oct 1-4, 2013.

Conradsson, D., Nero, H., Hagströmer, M., **Paquette, C.**, Franzén, E. (2013) Do clinical tests of balance performance correlate with physical activity level in Parkinson's disease? World Parkinson Congress. Montreal QC, Oct 1-4, 2013.

**Paquette, C.**, Reigel, M., Anglade, C., Fung, J. and Thiel, A. (2013) Brain stimulation combined with rehabilitation in acute stage improves upper limb function. Canadian Stroke Congress. Montreal QC, Oct 17-20, 2013.

**Paquette, C.**, Funck, T., Sidel, M., Melmed, C., Monchi, O., Thiel, A. (2013) Asymmetrical changes in cortical neuronal density with idiopathic Parkinson's syndrome. Organization for Human Brain Mapping Poster Listing Book, p. 21. Seattle WA: June 16-20, 2013. Poster Presentation.

Israeli-Korn, S.D, Barliya, A., **Paquette, C.**, Franzén, E., Inzelberg, R., Horak, F., Flash, T. (2013) The effect of cerebellar disease (CD) and Parkinson's disease (PD) on lower limb intersegmental covariation in linear and circular locomotion with and without vision. *Mov Disord.* 28 (Suppl. 1), S361-2. Sydney AU: June 16-20, 2013.

**Paquette, C.**, Reigel, M., Anglade, C., Fung, J., Thiel, A. (2013) Early inhibitory non-invasive brain stimulation of the unaffected hemisphere combined with rehabilitation improves motor outcome in acute stroke. 22nd European Stroke Conference Abstract book, London UK: May 28-31, 2013. Oral Presentation.

**Paquette, C.** (2013). Brain Imaging Techniques to Quantify Locomotor -related Activities, McGill Neurology Grand Rounds, Montreal, Quebec, Canada.

**Paquette, C.** (2013) Steering gait mechanisms in the human brain, sensing Motion for Action: A tribute to the career of Geoffrey Melvill Jones, Montreal, Quebec, Canada.

#### **PEARSALL, David**

Paquette, M. R., Zucker-Levin, A., DeVita, P., Hoekstra, J. and **Pearsall, D.** Knee angular position and muscle activity during modified elliptical exercise. *American Society of Biomechanics*, Omaha, NE, September 4-7, 2013

#### **SCHEEDE-BERGD AHL, Celena**

**Scheede-Bergdahl, C.**, Bergdahl, A., Schjerling, P., Qvortrup, K., Dela, F. Exercise induced regulation of matrix metalloproteinases in the skeletal muscle of subjects with type 2 diabetes. Groupe de Recherche en Activité Physique Adapté (GRAPA), Montreal, March 2013

#### **RASSIER, Dilson**

**Rassier, D.** From molecules to cells: the mechanics of muscle contraction. *XXIV Congress of the International Society of Biomechanics*, Natal, Brazil, August 2013.

**Rassier, D.** Residual force enhancement in mechanically isolated half-sarcomeres. *XXIV Congress International Society of Biomechanics*, Natal, Brazil, August 2013.

#### **SWEET, Shane**

**Sweet, S.N.**, Noreau, L., Leblond, J., Dumont, F. and the SCI Community Survey Team (2013). The relationship between spinal cord injury-related needs and quality of life in adults with a spinal cord injury. *Topics in Spinal Cord Injury Rehabilitation*, 19 (suppl. 1), s34. Presented at the American Spinal Injury Association 40<sup>th</sup> Anniversary Annual Scientific Meeting, Chicago, IL.

**Sweet, S.N.**, Vickey, T., Martin Ginis, K.A. (2013). To tweet or not to tweet: The relationship between use of twitter, mobile physical activity applications and physical activity participation. *Annals of Behavioral Medicine*, 45 (suppl.), s296. Presented at the Society of Behavior Medicine Annual Conference, San Francisco, CA.

**Sweet, S.N.**, Latimer-Cheung, A.E., & Brawley, L. R. (2013, October). To plan or not to plan: Applying message framing to promote action planning behaviour. Presented at the Annual meeting for the Canadian Society for Psychomotor Learning and Sport Psychology, Kelowna, BC.

Mistry, C.D., **Sweet, S.N.**, & Latimer-Cheung, A.E. (2013, October). Text2Plan: Testing the efficacy of tailored, text messages for promoting planning for physical activity. Presented at the Annual meeting for the Canadian Society for Psychomotor Learning and Sport Psychology, Kelowna, BC.

Strachan, S.M., **Sweet, S.N.**, Meade, L., Kehler, D.S., Kent, D., Garcia, E., Duhamel, T.A. and the ENCOURAGE project researchers (2013, October). Testing the physical activity self-definition model in the context of the ENCOURAGE trial. Presented at the Annual meeting for the Canadian Society for Psychomotor Learning and Sport Psychology, Kelowna, BC.

**Sweet, S.N.**, Estabrooks, P.A., Latimer-Cheung, A.E., Martin Ginis, K.A. (2013, May). Applying RE-AIM to a national physical activity-enhancing partnership initiative: A preliminary evaluation of SCI Action Canada. Presented at the Annual meeting for the International Society for Behavioral Nutrition and Physical Activity, Ghent, Belgium.

Martin Ginis, K.A., **Sweet, S.N.**, Vickey, T. (2013, May). Tweeting for fitness: use of mobile fitness apps for fitness-based social networking over 6-months. Presented at the Annual meeting for the International Society for Behavioral Nutrition and Physical Activity, Ghent, Belgium.

#### TAIVASSALO, Tanya

Spendiff, S., Purves-Smith, F.M., Filion, M.E., Gouspillou, G., Wright, K., Vuda, M., Morais, J., Hepple, R.T., **Taivassalo, T.** Mitochondrial contributions to ageing: lessons from the Masters Athletes. 3<sup>rd</sup> Montreal Mitochondria Network Meeting, Montreal, October 2013, Montreal, (Canada).

Allen, M.D., Power, G.A., Filion, M.E., Doherty, T.J., Rice, C.L., **Taivassalo, T.**, Hepple, R.T. Motor unit number estimates in world-class masters athletes: is 80 the new 60? Presented at *Experimental Biology*, April 20, 2013

#### Book Chapters

##### BLOOM, Gordon

**Bloom, G.A.** (2013) Mentoring for sport coaches in *Routledge Handbook of Sports Coaching*, P. Potrac, W. Gilbert, and J. Denison eds., New York: Routledge, 2013, pp. 476-485.

Loughead, T.M., and **Bloom, G.A.** Team cohesion in sport: Critical overview and implications for team building, in *Routledge Handbook of Sports Coaching*, P. Potrac, W. Gilbert, and J. Denison eds., New York: Routledge, 2013, pp. 345-356.

##### DUNCAN, Lindsay

**Duncan, L.R.**, Latimer, A.E., Rivers, S.E., & Salovey, P. (2013). Not All Messages Are Created Equal. Toward an Integrated Approach to Message Development. In *Health Behavior: New Research*. Nova Publishers.

##### GARCIA, Enrique

**García Bengoechea, E.** (2013). La escuela como contexto de promoción de la actividad física: retos y oportunidades. [*The school as context for the promotion of physical activity; Challenges and opportunities*]. In F. Ruiz Juan, B. Mendez Rial, G. Reinaldo Garcia, & D. Benavides Alonso (Eds). Educación física y deporte



promotores de una vida saludable: recursos del medio natural y cultural para intervenir en el sedentarismo y la obesidad [*Physical education and sport as promoters of healthy living: Resources of the physical and cultural environment to intervene to prevent sedentarity and obesity*] (pp. 51-56). FEADDEF-Alto Rendimiento.

#### Appendix IV: Pattern of Publications & Professional Activities (2006-2011)

<u>PUBLICATIONS</u>	2007-8	2008-9	2009-10	2011	2012	2013
Refereed Journal Articles	21	30	84	61	47	60
Refereed Conference Proceedings/Presentations	8	19	68	82	61	67
Refereed Published Abstracts	1	5	5	5	2	-
Book Chapters	2	3	11	5	4	5
Books-Edited	-	-	-	-	1	-
Books-Written	-	-	1	1	-	-
<b>TOTAL REFEREED PUBLICATIONS</b>	<b>32</b>	<b>57</b>	<b>169</b>	<b>154</b>	<b>115</b>	<b>132</b>
<b>NON-REFEREED PUBLICATIONS</b>						
Reviews (e.g., books)	0	0	0	-	-	-
Non-refereed Journal/Magazine Articles	4	3	0	8	1	1
Manuals	0	0	2	6	-	-
<b>TOTAL NON-REFEREED PUBLICATIONS</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>14</b>	<b>1</b>	<b>1</b>
<b><u>PROFESSIONAL ACTIVITIES</u></b>						
Presentations & Workshops	62	79	94	6	11	24
<b>TOTAL PUBLICATIONS AND PROFESSIONAL ACTIVITIES</b>	<b>98</b>	<b>139</b>	<b>265</b>	<b>174</b>	<b>127</b>	<b>157</b>

#### Appendix V: Graduate Student Funding

SOURCE OF FUNDING	Title/Name of Grant	Name of Student	Amount (\$)	Total (\$)
<b>FROM PROFESSORS' GRANTS</b>				
SSHRC (G. Bloom) + KPE Recruitment Award		Catherine Fairhurst	2,000	
SSHRC (B. Bloom) + KPE Recruitment Award		Jeemin Kim	2,000	
SSHRC (G. Bloom) + KPE Recruitment Award		Daniela Donoso	2,000	
SSHRC (G. Bloom) + KPE Award		Dominique Paiement	2,000	
SSHRC (G. Bloom) + KPE Award		Vanessa Sayer	2,000	
SSHRC (G. Bloom) Bloomberg matching		William Falcao	5,000	
NSERC Tri-Council (J. Côté)		Larissa Fedorowich	700	
CIHR/IRSST (J. Côté)		Larissa Fedorowich	5,430.96	

CIHR/IRSST (J.Côté) NSERC (J.Côté) + KPE Award		Larissa Fedorowich Larissa Fedorowich	4,827.52 3,500	
NSERC (J. Côté) KPE Recruitment Award		Hiram Cantu	5,550	
Auto 21 Grant (J. Côté) + KPE Recruitment Award		Adrien Moufflet	19,200	
CIHR-IRSST (J.,Côté) + KPE Recruitment Award		MichaelYehoyakim	2,000	
SSHRC (W. Harvey) + KPE Award		Carolyn Oliver	2,000	
SSHRC (W. Harvey) + KPE Award		Anne-Catherine Knecht	2,000	
SSHRC (W. Harvey) + KPE Award		Enrico Quilico	2,000	
SSHRC (W. Harvey) + KPE Award		Vanessa Sayer	2,000	
SSHRC (W. Harvey) + KPE Award		Lara Munro	2,000	
RI MUHC (R. Hepple)+ KPE Recruitment Award		Teal Gove	10,350	
NCAA (R. Hepple)		Teal Gove	7,500	
RI MUCH (R. Hepple+ KPE Recruitment Award		Yana Konokova	15,000	
NSERC (D. Jensen) + KPE Award		Kevin Pham	2,000	
NSERC (D. Jensen + KPE Award		Houssam Kotrach	2,000	
NSERC (D. Jensen) + KPE Award		Courtney Wilkinson	2,000	
NSERC (D. Pearsall) + KPE Recruitment Award		Andrew Flemming	2,000	
NSERC (D. Pearsall) + KPE Recruitment Award		Philippe Renaud	2,000	
NSERC (D. Pearsall) + KPE Recruitment Award		Neal Prokop	2,000	
NSERC (D. Rassier) + KPE Recruitment Award		Felipe DeSouza Leite	4,500	
Matching				
NSERC (D. Rassier) + KPE Award		Anju Phillip	2,000	
NSERC (D. Rassier) + KPE Award		Neal Trecarten	2,000	
				<b>100,258.48</b>
<b>GRADUATE STUDIES FELLOWSHIPS</b>				
CIHR	Ph.D. Fellowship	Marie-Eve Filion	20,000	20,000
CIHR	Ph.D. Fellowship	Sophia Kapchinsky	20,000	20,000
CIHR-FRSQ	Master's Award	Cassandra Mendonca	18,000	18,000
CIHR Travel Award	Master's Award	Cassandra Mendonca	650	650
CNPq-Brazil and McGill	Ph.D. Funding	Felipe DeSouza Leite	40,000	40,000
Dyspnea Society 2013	Master's Award	Cassandra Mendonca	1,000	1,000

Travel Award				
FQRNT Award	Ph.D. Award	Fabio Minozzo	30,000	30,000
Graduate Excellence Award	Ph.D. Award	Hiram Cantu	4,515.50	4,515.50
Graduate Excellence Award	Master's Award	Adrien Moufflet	4,515.50	4,515.50
Mexican Government	Ph.D. Funding	Hiram Cantu	30,918	30,918
Mitacs	Master's Award	Samuel Forget	8,000	8,000
MUHC	Master's Award	Norah MacMillan	16,000	16,000
NCAA Award	Ph.D. Award	Teal Gove	7,500	7,500
<b>FELLOWSHIPS:</b>				
. A. E. Wilkinson Award	M.A. Scholarship	Ryan Reid	800	800
. D. Marisi Award	M.A. Scholarship	Katherine Fairhurst	500	500
. David L. Montgomery	Master/Ph.D. award	Hannah Lemke	3,500	3,500
. Bloomberg-Manulife	Ph.D. Fellowship	Ryan Reid	22,500	22,500
		Yu-Shu Cheng	22,500	
		William Falcao	15,000	
		Hiram Cantu	15,000	
				15,000
				15,000
<b>TEACHING ASSISTANTSHIPS</b>				
		<b>Fall 2013:</b>		
		Michael Cicchillitti	2651	
		Danielle Fainer	2651	
		Sophia Kapchinsky	2651	
		Anne-Catherine Knecht	2651	
		Houssam Kotrach	2651	
		Marilee Nugent	2651	
		Kevin Pham	2651	
		K. Rathanaswami	2651	
		Ryan Reid	2651	
		Samanatha Taran	2651	
		Marija Vujovic (Med)	2651	
		Courtney Wilkinson-Maitland	2651	31,812
		<b>Winter 2014:</b>		
		Paula Bush	2683	
		Andrew Flemming	2387	
		Anne-Catherine Knecht	4024	
		Houssam Kotrach	1341	
		Kevin Pham	2683	
		Anju Phillip	2683	
		Neal Prokop	3031	
		Philippe Renaud	3970	
		Vanessa Sayer	4829	
		Neal Trecarten	2683	30,317
<b>PEER REVIEWED</b>				

OTHER	Part-time Department Instructors	<b>2013-2014:</b> Paula Bush Jeffrey Caron Michael Cicchillitti William Falcao	7200 9600 7200 7200	31,200
	Teaching Lab Coordinator	Kristina Muscat	5302	5,302
<b>OVERALL TOTAL FOR GRADUATE STUDENT FUNDING</b>				<b>479,788.48</b>

### Appendix VI: Consulting activities

Name of Faculty Member	Number of hours			Total
	Private Sector Consulting	Public Sector Consulting	Other (please explain)	
G. Bloom	Professional NHL Player			20
G. Bloom		National Sport Institute		30
J. Cote	Montreal & Quebec City Center for Interdisciplinary Research in Rehabilitation			120
L. Duncan		McGill Athletics/Varsity Synchronized Swimming Team		140
D. Jensen	Lamour Hosiery Inc.			5
D. Jensen	Canadian Cohort Obstructive Lung Disease (CanCOLD)			40
D. Pearsall	Impakt Protection			15
<b>Total</b>				<b>370</b>

### Appendix VII: Professional Relevant Community Service

Name of Faculty Member	Name of Organization	Committee Title	Office or Position, Role
R. Andersen	ACSM	Communications	Member
	Hong Kong University	External Assessor	Member
Celena S. Bergdahl	Lakeshore Soccer	Recreational League	Coach
G. Bloom	McGill Athletics	J. Caron (swimming), K. Egleton (volleyball) W. Falcao(m soccer), J. Kim (badminton), D. Donoso (figure Skating	Sport Psych Internship Supervisor

	McGill Athletics	Football, w. hockey, w. basketball	Sport Psych consultant
	The Gazette Newspaper	Interviewed for Story	
	Radio Humber	Radio Interview	
	CBC Radio, Newfoundland	Radio Interview	
	Website for Physical Activity	Interviewed for story	
	National Post Newspaper	Interviewed for story	
E. Garcia	Kahnawake Schools Diabetes Prevention Project (KSDPP)	Member of Research Team	Collaborate with community-based researchers and community members in the design, implementation and evaluation of diabetes prevention initiatives
W. Harvey	Physical and Health Education Canada	Board of Directors	Quebec Representative
	Association of Physical Educators of Quebec	Executive Committee	McGill Representative
R. Hepple	National Institute of Health	Skeletal Muscle and Exercise Physiology study section	Grant reviewer
	CIHR	Movement and Exercise review panel	Grant reviewer
	CIHR	Biological and Clinical Aspects of Aging review panel	Grant reviewer
	CIHR Institute of Aging	Age Plus Prize	Grant reviewer
D. Jensen	Research Institute of the McGill University Health Center	RI MUHC 2013-2014 Studentship & Fellowship Competition	Adhoc External Reviewer of 16 applications each 35-40 pages in length
	Institute of Circulatory and Respiratory Health (ICRH) of the Canadian Institutes of Health Research (CIHR)	Young Investigators Forum, Toronto, ON, Canada	Judge of poster presentations by Graduate Students, Post-Doctoral Research Fellows, and Young Investigators
	Institute of Circulatory and Respiratory Health (ICRH of the Canadian Institutes of Health Research (CIHR)	Young Investigators Forum, Toronto, ON, Canada	Invited Chair of panel discussion entitled "Launching a Successful Career in Research"
	Institute of Circulatory and Respiratory Health (ICRH of the Canadian Institutes of Health Research (CIHR)	Young Investigators Forum, Toronto, ON, Canada	Adhoc External Reviewer of 13 Scientific abstracts submitted for consideration of presentation by Graduate Students, Post-Doctoral Research Fellows, and Young Investigators
D. Pearsall	Canadian Standards Association	Sporting Equipment	Associate Member
	NSERC	Discovery Grant x 2	Grant reviewer

	NSERC	CRD Grant	Grant reviewer
	NSERC	Discovery Grant	Grant reviewer
	Conference sur la recherche en biomécanique du Québec/Biomechanics Research in Quebec Conference	Organizing Committee	Member
D. Rassier	NSERC	Permanent Member of Reviewing Committee - Discovery Grants - Biological Systems	Reviewing grants
	CIHR	Permanent Member of Reviewing Committee - Operation Grants	Reviewing grants

**No of Postdocs: 2**

**Fabio Minozzo - Dilson Rassier - \$35,000 ((CIHR)**  
**Sally Spendiff - Tanja Taivassalo**  
**Gilles Gouspillou - Russ Hepple**

**2013-2014 KPE In-Course Award Recipients (Undergraduate)**

AWARD	Student Name	Student ID #	Degree	Class Year
A.S. Lamb	Lucus Merotto	260411261	B.Sc. Kin	Yr.3
	Liseanne Nelson	260402158	B.Sc. Kin	Yr.3
	Liana Balaghi	260522258	B.Sc. Kin	Yr.2
Bob Berry	No funds/no awards in 2013-2014			
John Chomay	Osborn Long	260366148	B.Ed.	Yr.4
Adriano Tassone	Eugene Beiline	260585503	B.Sc. Kin	Yr.2
	Rhea Coriaty	260587810	B.Sc. Kin	Yr.2
	Jessica Conti	260535411	B.Sc. Kin	Yr.3
	Vanissa Savarimuthu	260517637	B.Sc. Kin	Yr.3
	Xin Wei Yan	260464356	B.Sc. Kin	Yr.3
	Qinghua Wu	110245977	B.Sc. Kin	Yr.4
Strathcona Trust Plaques	Emmanuelle De Vigne Blanchet	260362857	B.Ed.	Yr.4
	Natasha Benvenuto	260479217	B.Ed.	Yr.4
	Osborn Long	260366148	B.Ed.	Yr.4
	Scott Hancock	260464780	B.Ed.	Yr.3